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 Writer's Direct Dial Number:

C321-93-2072
 February 26, 1993

U.S. Nuclear Regulatory Commission
 Att: Document Control Desk
 Washington, DC 20555

Dear Sir:

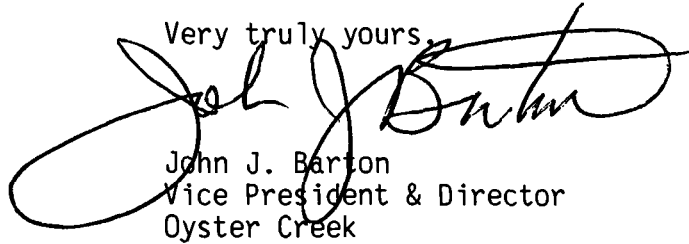
Subject: Oyster Creek Nuclear Generating Station
 Docket No. 50-219
 Semi-Annual Radiological Release Report

Attached is a copy of the Oyster Creek Effluent Release Report for the period covering July 1992 through December, 1992. This submittal is made in accordance with our Operating License and Technical Specifications.

As allowed by the recent change to 10 CFR 50.36a(2), we will begin submitting this report annually upon receipt of a Technical Specification Change for which we plan to submit the request to you shortly.

If you have any questions, please do not hesitate to contact Brenda DeMerchant, Oyster Creek Licensing Engineer at 609-971-4642.

Very truly yours,



John J. Barton
 Vice President & Director
 Oyster Creek

JJB/BDEM/jc
 Attachment
 cc: Chief
 Bureau of Nuclear Engineering
 NJ Dept. of Environmental Protection & Energy
 CN 411
 Trenton, NJ 08623

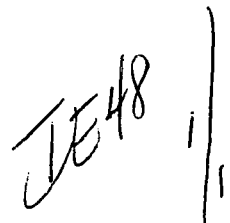
Senior NRC Resident Inspector
 Oyster Creek NRC Project Manager
 Administrator, Region 1

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EXECUTIVE SUMMARY, 1992-2 SEMI-ANNUAL RELEASE REPORT

The Semiannual Effluent Release Report is submitted to the United States Nuclear Regulatory Commission (NRC) every six months in accordance with the Oyster Creek Nuclear Generating Station (OCNGS) Technical Specifications (Tech Specs). It Summarizes the radioactive gaseous and liquid effluents released and solid radioactive wastes shipped from the OCNGS. In addition, meteorological data are presented in joint frequency tables per atmospheric stability class.

Attached Tables show that doses based on quantities of radioactive material released were all less than 1% of the limits allowed by the OCNGS Tech Specs. Limits for the release of radioactive effluents at OCNGS are based upon offsite exposure to members of the general public. These limits were compared to dose projections calculated using the methodology in the Offsite Dose Calculation Manual (ODCM). There were no liquid releases from OCNGS during the period. Solid waste shipments were similar to those of nuclear plants of comparable type, age and size. Concrete was used for solidification material during the reporting period. The report summarizes the fact that all effluents released were within federal regulatory requirements of the OCNGS Technical Specifications.

A summary of Oyster Creek's meteorological data is provided in tabular form. Also included is a description of changes made to the Offsite Dose Calculation Manual (ODCM) and the Process Control Plan (PCP) during the reporting period. Effluent monitoring instruments that were inoperative as per Technical Specification 3.15 for the reporting period are also discussed.

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Maximum Offsite Dose Due to Radionuclides in Effluents July-Dec. 1992

Tech. Spec.	3.6.J.1 Liquid Dose WB mrem	3.6.J.1 Organ mrem	3.6.L.1 Air Dose (Gas) Beta mrem	3.6.L.1 Gamma mrem	3.6.K.1 Whole Body mrem	3.6.M.1 (Thyroid) Organ mrem	3.6.K.1 Skin mrem
JULY-DEC. Total	0.00E+00	0.00E+00	1.45E-03	2.74E-03	2.21E-03	2.13E-02	2.36E-03
Tech. Spec. Limit	3	10	20	10	500	15	3000
Fraction of Limit	0.00E+00	0.00E+00	7.25E-05	2.74E-04	4.42E-06	1.42E-03	7.85E-07

Tech. Spec. Ref.	3.6.N.1 Whole Body mrem	3.6.N.1 (thyroid) Organ mrem
1992 total	6.32E-03	2.47E-01
Tech. Spec. Limit	25	75
Fraction of Annual Limit	2.53E-04	3.30E-03

Effluent and Waste Disposal Supplemental Information

FACILITY: Oyster Creek Nuclear Generating Station
LICENSEE: Owner - Jersey Central Power and Light Company
Operator - GPU Nuclear Corporation

1.) Regulatory Limits

a.) Fission and Activation Gases

Technical Specification 3.6.E.1

The gross radioactivity in noble gases discharged from the main condenser air ejector shall not exceed a $0.21/E$ Ci/sec after the holdup line, where E is the average gamma energy (Mev per atomic transformation).

Technical Specification 3.6.K.1

The dose equivalent rate outside of the EXCLUSION AREA due to radioactive noble gas in gaseous effluent shall not exceed 500 mrem/year to the total body or 3000 mrem/year to the skin.

Technical Specification 3.6.L.1

The air dose outside of the EXCLUSION AREA due to noble gas released in gaseous effluent shall not exceed:

*5 mrad/calendar quarter due to gamma radiation,
10 mrad/calendar quarter due to beta radiation,
10 mrad/calendar year due to gamma radiation, or
20 mrad/calendar year due to beta radiation*

Technical Specification 3.6.N.1

The annual dose to a MEMBER OF THE PUBLIC due to radiation and radioactive material in effluents from the OCNCS outside of the EXCLUSION AREA shall not exceed 75 mrem to his thyroid or 25 mrem to his total body or to any other organ.

b. Iodines and Particulates

Technical Specification 3.6.K.2

The dose equivalent rate outside of the EXCLUSION AREA due to H-3, I-131, I-133, and to radioactive material in particulates having half-lives of 8 days or more in gaseous effluents shall not exceed 1500 mrem/year to any body organ when the dose rate due to H-3, Sr-89, Sr-90, and alpha-emitting radionuclides is averaged over no more than 3 months and the dose rate due to other radionuclides is averaged over no more than 31 days.

Technical Specification 3.6.M.1

The dose to a MEMBER OF THE PUBLIC from iodine-131, iodine-133, and from radionuclides in particulate form having half-lives of 8 days or more in gaseous effluents, outside of the EXCLUSION AREA shall not exceed 7.5 mrem to any body organ per calendar quarter or 15 mrem to any body organ per calendar year.

c. Liquid Effluents

Technical Specification 3.6.I.1

The concentration of radioactive material, other than noble gases, in liquid effluent in the discharge canal at the Route 9 bridge shall not exceed the concentrations specified in 10 CFR Part 20, Appendix B, Table II, Column 2.

Technical Specification 3.6.I.2

The concentration of noble gases dissolved or entrained in liquid effluent in the discharge canal at the Route 9 bridge shall not exceed 2×10^{-4} microcuries/milliliter.

Technical Specification 3.6.J.2

The dose to a MEMBER OF THE PUBLIC due to radioactive material in liquid effluents beyond the outside of the EXCLUSION AREA shall not exceed:

*1.5 mrem to the total body during any calendar quarter,
5 mrem to any body organ during any calendar quarter,
3 mrem to the total body during any calendar year, or
10 mrem to any body organ during any calendar year.*

2.) Maximum Permissible Concentrations (MPC)

a. Fission and Activation Gases:

Appendix B, Table II, Column 2 of 10 CFR 20

b. Iodines and Particulates:

Appendix B, Table II, Column 2 of 10 CFR 20

c. Liquid Effluents:

Appendix B, Table II, Column 2 of 10 CFR 20, except for dissolved or entrained noble gases where the limit is 2×10^{-4} uCi/ml

3.) Measurements and Approximation of Total Radioactivity

a. Fission and Activation Gases:

1. Stack

The continuous recording of gross activity and the incorporation of isotopic data obtained from a weekly grab sample analyzed using gamma spectroscopy.

2. Augmented Offgas (AOG) Vent

The continuous recording of gross activity and the incorporation of isotopic data obtained from a weekly grab sample analyzed using gamma spectroscopy.

3. Turbine Building Stack and Feedpump Room Vent

The continuous recording of gross activity and the incorporation of isotopic data obtained from a monthly grab sample analyzed using gamma spectroscopy.

b. Iodines

1. Stack

Filters are changed twice weekly and analyzed using gamma spectroscopy.

2. AOG Vent

Filters are changed twice weekly and analyzed using gamma spectroscopy.

3. Turbine Building Stack and Feedpump Room Vent

Filters are changed twice weekly and analyzed using gamma spectroscopy.

c. Particulates

1. Stack

Filters are changed twice weekly and analyzed using a low background beta counter and gamma spectroscopy.

2. AOG Vent

Filters are changed twice weekly and analyzed using gamma spectroscopy.

3. Turbine Building Stack and Feedpump Room Vent

Filters are changed twice weekly and analyzed using gamma spectroscopy.

d. Liquid Effluents

Analysis per batch release using gamma spectrometry with a germanium detector, a low background beta counter, and a liquid scintillation counter.

OYSTER CREEK NUCLEAR GENERATING STATION
 GASEOUS EFFLUENT ELEVATED RELEASES
 Third Quarter 1992

FISSION GASES	QUANTITY (ci)
KR85M	9.81E+00
KR87	7.21E+00
KR88	1.02E+01
XE133	5.35E+01
XE135	1.66E+01
Total Fission Gases Released:	9.73E+01 ci
Gamma EBar:	0.347 Mev
Average Rate of Release:	1.22E+01 uCi/sec

IODINES	QUANTITY (ci)
I131	4.34E-03
I132	8.22E-03
I133	1.54E-02
I134	7.72E-03
I135	1.48E-02
Total Iodines Released:	5.04E-02 ci
Average Rate of Release:	6.35E-03 uCi/sec

PARTICULATES	QUANTITY (ci)
NA24	2.44E-03
CR51	9.98E-05
MN54	1.69E-05
CO58	5.34E-06
CO60	1.11E-04
RB89	4.51E-01
SR89	6.73E-04
SR90	3.66E-06
SR91	2.76E-03
SR92	4.60E-04
Y91M	1.74E-01
Y92	1.76E-04
TC99M	2.58E-03
RU106	8.58E-05
TE132	1.06E-05
CS137	3.91E-06
CS138	1.92E+00
BA139	7.93E-01
BA140	4.58E-04
LA140	5.20E-04
GROSSA	1.15E-05
Total Particulates Released:	3.35E+00 ci
Average Rate of Release:	4.22E-01 uCi/sec

RADIONUCLIDE	QUANTITY (ci)
H3	2.80E+00
Avg. Rate of Release for H3:	3.52E-01 uCi/sec

* Quantity of noble gases derived from gross activity.

OYSTER CREEK NUCLEAR GENERATING STATION
GASEOUS EFFLUENT GROUND-LEVEL RELEASES
Third Quarter 1992

*

FISSION GASES	QUANTITY (ci)
KR85M	5.64E-04
KR87	5.64E-04
KR88	5.64E-04
XE133	1.22E-02
XE135M	8.32E-03
XE135	6.24E-03
XE138	1.28E-03

Total Fission Gases Released: 2.97E-02 ci
Average Rate of Release: 3.74E-03 uCi/sec

IODINES	QUANTITY (ci)
I131	4.16E-05
I133	3.77E-04

Total Iodines Released: 4.18E-04 ci
Average Rate of Release: 5.26E-05 uCi/sec

PARTICULATES	QUANTITY (ci)
NA24	6.88E-06
CR51	3.19E-06
SR89	8.67E-06
Y91M	1.08E-03
TC99M	2.81E-05
CS138	9.00E-03
BA139	7.27E-03
CE141	6.94E-07
CE143	2.21E-06

Total Particulates Released: 1.74E-02 ci
Average Rate of Release: 2.19E-03 uCi/sec

RADIONUCLIDE	QUANTITY (ci)
H3	0.00E+00

Avg. Rate of Release for H3: 0.00E+00 uCi/sec

* Quantity of noble gases derived from gross activity.

OYSTER CREEK NUCLEAR GENERATING STATION
GASEOUS EFFLUENT ELEVATED RELEASES
Fourth Quarter 1992

FISSION GASES	QUANTITY (ci)
XE133	4.51E+01
XE135	6.18E+01

Total Fission Gases Released: 1.07E+02 ci
Gamma EBar: 0.162 Mev
Average Rate of Release: 1.34E+01 uCi/sec

IODINES	QUANTITY (ci)
I131	1.91E-03
I132	5.57E-03
I133	9.36E-03
I134	7.65E-03
I135	1.03E-02

Total Iodines Released: 3.48E-02 ci
Average Rate of Release: 4.38E-03 uCi/sec

PARTICULATES	QUANTITY (ci)
NA24	8.63E-04
CR51	8.47E-04
MN54	1.01E-05
CO60	1.32E-04
RB89	1.99E-01
SR89	4.09E-04
SR90	3.79E-06
SR91	2.99E-03
SR92	1.12E-03
Y91M	1.29E-01
TC99M	4.46E-03
TE132	4.72E-06
CS138	1.57E+00
BA139	5.73E-01
BA140	3.09E-04
LA140	1.34E-04
GROSSA	3.50E-05

Total Particulates Released: 2.48E+00 ci
Average Rate of Release: 3.12E-01 uCi/sec

RADIONUCLIDE	QUANTITY (ci)
H3	3.01E+00

Avg. Rate of Release for H3: 3.79E-01 uCi/sec

* Quantity of noble gases derived from gross activity.

OYSTER CREEK NUCLEAR GENERATING STATION
GASEOUS EFFLUENT GROUND-LEVEL RELEASES
Fourth Quarter 1992

*

FISSION GASES	QUANTITY (ci)
KR85M	4.71E-03
KR87	4.71E-03
KR88	4.71E-03
XE133	1.02E-01
XE135M	6.94E-02
XE135	1.20E-01
XE138	1.07E-02

Total Fission Gases Released: 3.16E-01 ci
Average Rate of Release: 3.97E-02 uCi/sec

IODINES	QUANTITY (ci)
I131	6.44E-05
I133	1.12E-04

Total Iodines Released: 1.76E-04 ci
Average Rate of Release: 2.21E-05 uCi/sec

PARTICULATES	QUANTITY (ci)
CR51	4.99E-04
MN54	5.85E-06
CO60	5.35E-05
SR89	1.10E-05
SR90	1.16E-05
Y91M	9.44E-03
TC99M	8.81E-06
RU103	2.90E-06
CS138	5.69E-03
BA139	4.77E-03
CE141	4.32E-07

Total Particulates Released: 2.05E-02 ci
Average Rate of Release: 2.58E-03 uCi/sec

RADIONUCLIDE	QUANTITY (ci)
H3	0.00E+00

Avg. Rate of Release for H3: 0.00E+00 uCi/sec

* Quantity of noble gases derived from gross activity.

OYSTER CREEK NUCLEAR GENERATING STATION
LIQUID EFFLUENT RELEASES
Third and Fourth Quarters 1992

Oyster Creek Nuclear Generating Station policy is to strive for zero liquid discharge of radioactive material. As a result, there were no liquid continuous or batch releases from OCNGS in the second half of 1992.

Solid Waste Shipped Offsite for Disposal
During Period From 07/1/92 to 12/31/92

Report Date 2/1/93

WASTE STREAM: DRY ACTIVE WASTE

WASTE CLASS	VOLUME		CURIES SHIPPED	% ERROR (Ci)
	Ft ³	M ³		
A	180.1	5.1	8.80 E-01	± 25%
B	0	0	0	± 25%
C	0	0	0	± 25%
All	180.1	5.1	8.80 E-01	± 25%

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: DRY ACTIVE WASTE

With 1% Cutoff

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
A	Fe-55	50.673%	4.46 E-1
	Co-60	34.426%	3.03 E-1
	Cs-137	9.123%	8.03 E-2
	Mn-54	2.500%	2.20 E-2
	Cs-134	1.852%	1.63 E-2
	Cr-51	1.318%	1.16 E-2
	H-3	.105%	9.28 E-4
	C-14	.002%	1.79 E-5
	Cm-242	0	0
	Pu-241	0	0
	I-129	0	0
	Tc-99	0	0
	Sr-90	0	0
	Nb-94	0	0
	Ni-63	0	0
	Ni-59	0	0

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: DRY ACTIVE WASTE

With 1% Cutoff

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
All	Fe-55	50.673%	4.46 E-1
	Co-60	34.426%	3.03 E-1
	Cs-137	9.123%	8.03 E-2
	Mn-54	2.500%	2.20 E-2
	Cs-134	1.852%	1.63 E-2
	Cr-51	1.318%	1.16 E-2
	H-3	0.105%	9.28 E-4
	C-14	0.002%	1.79 E-5
	Cm-242	0	0
	Pu-241	0	0
	I-129	0	0
	Tc-99	0	0
	Sr-90	0	0
	Nb-94	0	0
	Ni-63	0	0
	Ni-59	0	0

Solid Waste Shipped Offsite for Disposal
During Period From 07/1/92 to 12/31/92

Report Date 2/1/93

WASTE STREAM: OTHER WASTE

WASTE CLASS	VOLUME		CURIES SHIPPED	% ERROR (Ci)
	Ft ³	M ³		
A	0	0	0	± 25%
B	0	0	0	± 25%
C	0	0	0	± 25%
All	0	0	0	± 25%

Solid Waste Shipped Offsite for Disposal
During Period 07/01/92 to 12/31/92

Report Date 2/1/93

WASTE STREAM: RESINS, FILTERS, & EVAP. BOTTOMS

Waste Class	Volume		Curies Shipped	% Error (Ci)
	Ft ³	M ³		
A	3812.1	107.9	3.28 E+2	± 25%
B	788.2	22.3	1.21 E+2	± 25%
C	0	0	0	± 25%
All	4600.3	130.2	4.49 E+2	± 25%

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: RESINS, FILTERS, & EVAP. BOTTOMS

With 1% Cutoff

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
A	Co-60	43.360%	1.42 E+2
	Fe-55	32.508%	1.07 E+2
	Mn-54	8.807%	2.89 E+1
	Cr-51	5.600%	1.84 E0
	Cs-137	4.016%	1.32 E+1
	Co-58	2.313%	7.58 E0
	Cs-134	1.124%	3.69 E0
	Ni-63	0.335%	1.10 E0
	Pu-241	0.032%	1.04 E-1
	Sr-90	0.027%	8.86 E-2
	Ni-59	0.016%	5.33 E-2
	C-14	0.009%	2.85 E-2
	H-3	0.002%	7.94 E-3
	Cm-242	0	5.14 E-4
	I-129	0	0
	Tc-99	0	0
	Nb-94	0	0

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: RESINS, FILTERS, & EVAP. BOTTOMS

With 1% Cutoff

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
B	Cs-137	38.251%	4.63 E+1
	Fe-55	26.096%	3.16 E+1
	Co-60	24.175%	2.92 E+1
	Cs-134	3.469%	4.19 E0
	Mn-54	2.723%	3.29 E0
	Sr-90	1.939%	2.34 E0
	Sr-89	1.499%	1.81 E0
	Ni-63	0.248%	3.00 E-1
	Pu-241	0.160%	1.93 E-2
	C-14	0.046%	5.61 E-2
	Ni-59	0.016%	1.90 E-2
	H-3	0.003%	3.97 E-3
	Cm-242	0.001%	6.11 E-4
	I-129	0	0
	Tc-99	0	0
	Nb-94	0	0

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: RESINS, FILTERS, & EVAP. BOTTOMS

With 1% Cutoff

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
All	Co-60	38.192%	1.71 E+2
	Fe-55	30.781%	1.38 E+2
	Cs-137	13.239%	5.94 E+1
	Mn-54	7.168%	3.22 E+1
	Cr-51	4.260%	1.91 E+1
	Co-58	1.770%	7.95 E0
	Cs-134	1.756%	7.88 E0
	Sr-90	0.542%	2.43 E0
	Ni-63	0.312%	1.40 E0
	Pu-241	0.066%	2.97 E-1
	C-14	0.019%	8.46 E-2
	Ni-59	0.016%	7.23 E-2
	H-3	0.003%	1.19 E-2
	Cm-242	0	1.13 E-3
	I-129	0	0
	Tc-99	0	0
Nb-94	0	0	

Solid Waste Shipped Offsite for Disposal
During Period From 07/1/92 to 12/31/92

Report Date 2/1/93

WASTE STREAM: IRRADIATED HARDWARE

WASTE CLASS	VOLUME		CURIES SHIPPED	% ERROR (Ci)
	Ft ³	M ³		
A	728.4	20.61	7.53	± 25%
B	0	0	0	± 25%
C	78.6	2.22	23990	± 25%
All	807	22.83	23997.53	± 25%

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: IRRADIATED HARDWARE

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
A	Co-60	45.2	3.40
	Fe-55	43.5	3.28
	Co-58	5.4	.41
	Mn-54	3.5	.26
	Ni-63	1.3	.10
	Fe-59	.9	.07
	Cr-51	.1	.008
	Cs-137	.1	.008
	Pu-241	.1	.008
	H-3	0	0
	C-14	0	0
	Tc-99	0	0
	I-129	0	0
	Sr-90	0	0
	Ce-144	0	0
	Pu-238	0	0
	Pu-239/40	0	0
	Am-241	0	0
	Cm-242	0	0
	Cm-243/44	0	0

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: IRRADIATED HARDWARE

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
C	Fe-55	47.7%	1.17 E4
	Co-60	43.9%	1.05 E4
	Ni-63	5.2%	1.20 E3
	Mn-54	2.9%	6.35 E2
	Cr-51	0.1%	1.13 E1
	Ni-59	0	7.75 E0
	Nb-94	0	2.05 E-2
	H-3	0	2.24 E-2
	C-14	0	1.96 E0
	Tc-99	0	1.13 E-2
	I-129	N.P.	N.P.
	Np-237	0	1.20 E-7
	Pu-238	0	7.81 E-4
	Pu-239/40	0	1.71 E-6
	Pu-241	0	2.14 E-4
	Pu-242	0	1.38 E-9
	Am-241	0	4.50 E-7
	Am-243	0	1.41 E-8
	Cm-242	0	4.00 E-5
	Cm-243/44	0	4.60 E-6

Solid Waste Shipped Offsite for Disposal
During Period 07/01/92 to 12/31/92

Report Date 2/1/93

WASTE STREAM: FILTERS (FROM SPENT FUEL POOL PROJECT)

Waste Class	Volume		Curies Shipped	% Error (Ci)
	Ft ³	M ³		
A	0	0	0	± 25%
B	361	10.21	2.94 E2	± 25%
C	0	0	0	± 25%
All	361	10.21	2.94 E2	± 25%

NOTE: One shipment also contained Irradiated Hardware (Velocity Limiters from Control Rod Blades).

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: FILTERS (FROM SPENT FUEL POOL PROJECT)

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
B	Co-60	44.60	1.31 E2
	Fe-55	46.94	1.38 E2
	Mn-54	4.10	1.20 E1
	Cs-137	1.57	4.62 E0
	Cs-134	.60	1.77 E0
	Co-58	.40	1.15 E0
	Ni-63	1.62	4.75 E0
	C-14	0	4.35 E-2
	Sr-90	0	1.51 E-2
	Ce-144	0	8.85 E-3
	Sr-89	0	1.47 E-2
	Pu-238	0	1.50 E-4
	Pu-239/40	0	9.67 E-5
	Pu-241	0	6.98 E-3
	Am-241	0	1.34 E-4
	Cm-242	0	1.70 E-4
	Cm-243/44	0	1.67 E-4
H-3	0	4.02 E-5	

Solid Waste Shipped Offsite for Disposal
During Period From 07/1/92 to 12/31/92

Report Date 2/1/93

WASTE STREAM: SUM OF ALL CATEGORIES

WASTE CLASS	VOLUME		CURIES SHIPPED	% ERROR (Ci)
	Ft ³	M ³		
A	4720.6	133.61	336.53	± 25%
B	1149.2	32.51	415.00	± 25%
C	78.6	2.22	23990.00	± 25%
All	5948.4	168.34	24741.53	± 25%

NOTE: Does not include waste shipped to S.E.G.

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: SUM OF ALL EXCEPT D.A.W. TO S.E.G.

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
A	Co-60	44.03%	1.45 E+2
	Fe-55	33.40%	1.10 E+2
	Mn-54	8.87%	2.92 E+1
	Cr-51	5.62%	1.85 E+1
	Cs-137	4.04%	1.33 E+1
	Co-58	2.43%	7.99
	Cs-134	1.12%	3.70
	Ni-637	0.36%	1.20
	Pu-241	0.03%	1.12 E-1
	Sr-90	0.03%	8.86 E-2
	Ni-59	0.02%	5.33 E-2
	C-14	0.01%	2.85 E-2
	H-3	0	8.87 E-3
	Cm-242	0	5.14 E-4
	I-129	0	0
	Tc-99	0	0
	Nb-94	0	0
	Fe-59	0.20%	<u>7.00 E-2</u>
			3.293 E2

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: SUM OF ALL WASTE STREAMS

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
B	CS-137	12.30%	5.09 E1
	Fe-55	41.20%	1.70 E2
	Co-60	38.70%	1.60 E2
	Cs-134	1.44%	5.96
	Mn-54	3.70%	1.53 E1
	Sr-90	0.57%	2.36
	Sr-89	0.44%	1.82
	Ni-63	1.22%	5.05
	Pu-241	0.05%	2.00 E-1
	C-14	0.02%	9.96 E-2
	Ni-59	0	1.90 E-2
	H-3	0	4.01 E-3
	Cm-242	0	7.81 E-4
	Co-58	0	1.15
	Ce-144	0	8.85 E-3
	Pu-238	0	1.50 E-4
	Pu-239/40	0	9.67 E-5
	Am-241	0	1.34 E-4
	Cm-243/44	0	1.67 E-4
	Tc-99	0	0
	Nb-94	0	0
	I-129	0	0

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: SUM OF ALL WASTE STREAMS

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
C	Fe-55	47.7%	1.17 E4
	Co-60	43.9%	1.05 E4
	Ni-63	5.2%	1.20 E3
	Mn-54	2.9%	6.35 E2
	Cr-51	0.1%	1.13 E1
	Ni-59	0	7.75 E0
	Nb-94	0	2.05 E-2
	H-3	0	2.24 E-2
	C-14	0	1.96 E0
	Tc-99	0	1.13 E-2
	I-129	0	0
	Np-237	0	1.20 E-7
	Pu-238	0	7.81 E-4
	Pu-239/40	0	1.71 E-6
	Pu-241	0	2.14 E-4
	Pu-242	0	1.38 E-9
	Am-241	0	4.50 E-7
	Am-243	0	1.41 E-8
	Cm-242	0	4.00 E-5
	Cm-243/44	0	4.60 E-6

Estimates of Major Nuclides by Waste Class and Stream

WASTE STREAM: SUM OF ALL WASTE STREAMS

<u>Waste Class</u>	<u>Nuclide Name</u>	<u>Percent Abundance</u>	<u>Curies</u>
A11	Fe-55	48.310%	1.198 E4
	Co-60	43.550%	1.080 E4
	Ni-63	4.880%	1.210 E3
	Mn-54	2.740%	6.800 E2
	Cs-137	0.260%	6.420 E1
	Cr-51	0.120%	2.980 E1
	Co-58	0.040%	9.140
	Cs-134	0.040%	9.660
	Sr-90	0.010%	2.450
	C-14	0.008%	2.090
	Pu-241	0.001%	3.120 E-1
	Ni-59	0.030%	7.820
	Nb-94	0	2.050 E-2
	H-3	0	3.530 E-2
	Tc-99	0	1.130 E-2
	I-129	0	0
	Np-237	0	1.200 E-7
	Pu-238	0	9.310 E-4
	Pu-239/40	0	9.840 E-5
	Pu-242	0	0
	Am-241	0	1.350 E-4
	Cm-242	0	1.340 E-3
	Fe-59	0	7.000 E-2
	Cm-243/44	0	1.720 E-4

Regulatory Guide 1.21 Report
 Solid Waste Shipped Offsite for Disposal
 7/1/92 to 12/31/92

<u>Waste Type</u>	<u>Cubic Meters</u>	<u>Curies</u>	<u>% Error (CI)</u>
SEG	331.45 m ³	2.71	±25% Class A-u

Volume buried by S.E.G. = 23.93 m³ - Beatty, NV

Activity buried by S.E.G. = 1.93 Curies

<u>Waste Type</u>	<u>Nuclide</u>	<u>% Abundance</u>	<u>Curies</u>
Waste Shipped to SEG	Fe-55	50.70%	1.37
	Co-60	34.40%	.93
	Cs-137	9.08%	.25
	Mn-54	2.49%	.07
	Cs-134	1.84%	.05
	Cr-51	1.31%	.04
	H-3	0%	0
	C-14	0%	0
	Tc-99	0%	0
	I-129	0%	0
	Pu-241	0%	0
	Cm-242	0%	0
	Ni-63	0%	0
	Sr-90	0%	0

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
7	Truck	Oak Ridge, TN

Solid Waste Shipped Offsite for Disposal
7/1/92 to 12/31/92

<u>Waste Type</u>	<u>Cubic Meters</u>	<u>Curies</u>	<u>% Error (CI)</u>
Metals	78 14 m ³	1.32	±25% Class A-u

Volume buried by Alaron = 9.10 m³ - Barnwell, SC

Activity buried by Alaron = 1.143 Ci

<u>Waste Type</u>	<u>Nuclide</u>	<u>% Abundance</u>	<u>Curies</u>
Metals Shipped to Alaron	Fe-55	50.70%	.670
	Co-60	34.40%	.450
	Cs-137	9.08%	.120
	Mn-54	2.49%	.033
	Cs-134	1.84%	.024
	Cr-51	1.31%	.017
	H-3	0%	0
	C-14	0%	0
	Tc-99	0%	0
	I-129	0%	0
	Pu-241	0%	0
	Cm-242	0%	0
	Ni-63	0%	0
	Sr-90	0%	0

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
4	Truck	Wampum, PA

SOLID WASTE DISPOSITION SUMMARY

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
35	Truck	Barnwell, SC
0	Truck	Richland, WA
0	Truck	Beatty, NV
7	Truck	Oak Ridge, TN
4	Truck	Wampum, PA

OYSTER CREEK
33 FOOT GROUND LEVEL RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class:A

HOURS AT WIND SPEED AND DIRECTION

SECTOR	WINDS TO FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	0	20	19	0	0	0	39
NNE	SSW	2	17	11	0	0	0	30
NE	SW	0	29	44	6	0	0	79
ENE	WSW	1	36	88	6	0	0	131
E	W	0	54	75	1	0	0	130
ESE	WNW	0	54	37	0	0	0	91
SE	NW	1	24	78	1	0	0	104
SSE	NNW	0	12	60	16	0	0	88
S	N	1	13	51	70	1	0	136
SSW	NNE	1	7	22	20	0	0	50
SW	NE	1	14	23	11	0	0	49
WSW	ENE	0	22	45	12	0	0	79
W	E	1	22	56	16	0	0	95
WNW	ESE	0	20	101	26	0	0	147
NW	SE	1	16	111	45	1	0	174
NNW	SSE	0	24	51	11	0	0	86
TOTAL		9	384	872	241	2	0	1508

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class:B

HOURS AT WIND SPEED AND DIRECTION

SECTOR	WINDS TO FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	1	14	5	0	0	0	20
NNE	SSW	0	6	2	0	0	0	8
NE	SW	0	20	13	2	0	0	35
ENE	WSW	0	19	18	2	0	0	39
E	W	0	23	9	0	0	0	32
ESE	WNW	0	10	8	0	0	0	18
SE	NW	0	13	10	0	0	0	23
SSE	NNW	1	9	24	1	0	0	35
S	N	0	11	28	7	1	0	47
SSW	NNE	0	13	16	4	0	0	33
SW	NE	0	11	12	1	0	0	24
WSW	ENE	1	16	12	2	0	0	31
W	E	0	12	16	6	0	0	34
WNW	ESE	2	10	31	12	0	0	55
NW	SE	1	25	26	8	1	0	61
NNW	SSE	2	28	8	1	1	0	40
TOTAL		8	240	238	46	3	0	535

OYSTER CREEK
33 FOOT GROUND LEVEL RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class:C

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	0	10	0	0	0	0	10
NNE	SSW	1	7	0	0	0	0	8
NE	SW	0	12	4	0	0	0	16
ENE	WSW	1	15	7	0	0	0	23
E	W	0	12	3	0	0	0	15
ESE	WNW	0	9	6	0	0	0	15
SE	NW	0	9	7	0	0	0	16
SSE	NNW	1	7	6	1	0	0	15
S	N	0	7	9	4	0	0	20
SSW	NNE	1	2	11	8	1	0	23
SW	NE	1	6	0	2	0	0	9
WSW	ENE	1	7	1	0	0	0	9
W	E	0	12	12	5	0	0	29
WNW	ESE	1	7	5	2	0	0	15
NW	SE	0	9	12	2	1	0	24
NNW	SSE	0	10	6	1	0	0	17
TOTAL		7	141	89	25	2	0	264

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class:D

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	20	62	24	5	0	0	111
NNE	SSW	24	77	45	4	0	0	150
NE	SW	29	125	102	17	0	0	273
ENE	WSW	17	103	83	15	2	0	220
E	W	10	65	58	7	1	0	141
ESE	WNW	4	62	38	10	1	0	115
SE	NW	8	65	31	2	0	0	106
SSE	NNW	10	39	39	17	2	0	107
S	N	11	66	93	21	4	2	197
SSW	NNE	11	64	90	20	1	1	187
SW	NE	7	37	34	4	1	0	83
WSW	ENE	14	46	45	3	0	0	108
W	E	10	44	25	19	1	0	99
WNW	ESE	12	49	68	21	0	0	150
NW	SE	18	58	62	30	1	0	169
NNW	SSE	14	66	30	2	0	0	112
TOTAL		219	1028	867	197	14	3	2328

OYSTER CREEK
33 FOOT GROUND LEVEL RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class:E

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	26	36	7	0	0	0	69
NNE	SSW	29	30	9	0	0	0	68
NE	SW	25	40	8	4	0	0	77
ENE	WSW	20	32	7	4	2	0	65
E	W	22	55	9	0	6	3	95
ESE	WNW	15	21	14	9	0	0	59
SE	NW	17	34	12	4	1	0	68
SSE	NNW	20	30	18	9	1	0	78
S	N	32	56	32	5	1	1	127
SSW	NNE	26	107	68	20	3	0	224
SW	NE	36	144	52	2	0	0	234
WSW	ENE	56	154	29	1	0	0	240
W	E	41	138	8	3	0	0	190
WNW	ESE	43	135	82	6	0	0	266
NW	SE	40	130	42	3	0	0	215
NNW	SSE	37	100	16	0	0	0	153
TOTAL		485	1242	413	70	14	4	2228

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class:F

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	12	7	0	0	0	0	19
NNE	SSW	16	0	0	0	0	0	16
NE	SW	5	4	0	0	0	0	9
ENE	WSW	2	4	0	0	0	0	6
E	W	2	2	0	0	0	0	4
ESE	WNW	2	3	0	0	0	0	5
SE	NW	5	1	0	0	0	0	6
SSE	NNW	9	4	0	0	0	0	13
S	N	13	6	2	0	0	0	21
SSW	NNE	25	16	0	0	0	0	41
SW	NE	18	62	5	0	0	0	85
WSW	ENE	56	82	2	0	0	0	140
W	E	52	53	0	0	0	0	105
WNW	ESE	29	39	2	1	0	0	71
NW	SE	34	29	1	0	0	0	64
NNW	SSE	44	28	0	1	0	0	73
TOTAL		324	340	12	2	0	0	678

OYSTER CREEK
33 FOOT GROUND LEVEL RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300
Stability Class:G
HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	20	3	0	0	0	0	23
NNE	SSW	7	1	0	0	0	0	8
NE	SW	6	1	0	0	0	0	7
ENE	WSW	5	0	0	0	0	0	5
E	W	4	1	0	0	0	0	5
ESE	WNW	4	1	0	0	0	0	5
SE	NW	3	2	0	0	0	0	5
SSE	NNW	9	4	0	0	0	0	13
S	N	15	4	0	0	0	0	19
SSW	NNE	24	7	0	0	0	0	31
SW	NE	59	28	0	0	0	0	87
WSW	ENE	202	100	0	0	0	0	302
W	E	248	80	1	1	0	0	330
WNW	ESE	109	13	0	1	0	0	123
NW	SE	123	19	0	0	0	0	142
NNW	SSE	57	41	0	0	0	0	98
TOTAL		895	305	1	2	0	0	1203

Period of Record 01/01/92 @0000 TO 12/31/92 @2300
Stability Class:ALL
HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	79	152	55	5	0	0	291
NNE	SSW	79	138	67	4	0	0	288
NE	SW	65	231	171	29	0	0	496
ENE	WSW	46	209	203	27	4	0	489
E	W	38	212	154	8	7	3	422
ESE	WNW	25	160	103	19	1	0	308
SE	NW	34	148	138	7	1	0	328
SSE	NNW	50	105	147	44	3	0	349
S	N	72	163	215	107	7	3	567
SSW	NNE	88	216	207	72	5	1	589
SW	NE	122	302	126	20	1	0	571
WSW	ENE	330	427	134	18	0	0	909
W	E	352	361	118	50	1	0	882
WNW	ESE	196	273	289	69	0	0	827
NW	SE	217	286	254	88	4	0	849
NNW	SSE	154	297	111	16	1	0	579
TOTAL		1947	3680	2492	583	35	7	8744
HOURS OF MISSING/INVALID DATA:			40					

OYSTER CREEK
380 FOOT ELEVATED RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: A

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	0	1	0	0	0	0	1
NNE	SSW	0	1	0	0	0	0	1
NE	SW	0	1	0	5	3	0	9
ENE	WSW	0	0	3	20	7	1	31
E	W	0	1	6	7	1	0	15
ESE	WNW	0	1	4	0	0	0	5
SE	NW	0	0	4	0	0	0	4
SSE	NNW	0	0	0	3	2	0	5
S	N	0	0	0	5	8	1	14
SSW	NNE	0	0	2	1	0	0	3
SW	NE	0	1	0	0	0	0	1
WSW	ENE	0	1	1	5	2	4	13
W	E	0	0	1	1	6	2	10
WNW	ESE	0	0	1	2	16	13	32
NW	SE	0	0	1	11	16	9	37
NNW	SSE	0	0	1	3	6	1	11
TOTAL		0	7	24	63	67	31	192

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: B

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	0	0	4	2	1	0	7
NNE	SSW	0	0	0	1	2	0	3
NE	SW	0	1	5	11	5	2	24
ENE	WSW	0	0	13	11	3	1	28
E	W	0	1	17	7	0	0	25
ESE	WNW	0	1	11	0	0	0	12
SE	NW	0	0	14	5	0	0	19
SSE	NNW	0	0	4	14	0	0	18
S	N	0	1	2	11	11	2	27
SSW	NNE	0	1	1	2	3	3	10
SW	NE	0	0	4	2	1	0	7
WSW	ENE	0	2	2	3	9	4	20
W	E	0	0	2	5	9	3	19
WNW	ESE	0	0	5	11	7	3	26
NW	SE	0	0	2	9	17	14	42
NNW	SSE	0	0	2	8	4	1	15
TOTAL		0	7	88	102	72	33	302

OYSTER CREEK
380 FOOT ELEVATED RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: C

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	0	1	2	7	1	0	11
NNE	SSW	0	1	3	1	0	0	5
NE	SW	0	2	12	10	3	3	30
ENE	WSW	0	1	23	12	4	2	42
E	W	0	11	20	6	0	0	37
ESE	WNW	0	3	23	1	0	0	27
SE	NW	0	0	14	4	0	0	18
SSE	NNW	0	2	11	13	0	0	26
S	N	0	0	11	34	13	2	60
SSW	NNE	0	2	5	14	4	1	26
SW	NE	0	1	4	10	5	2	22
WSW	ENE	0	4	14	17	7	3	45
W	E	1	2	16	13	10	4	46
WNW	ESE	0	1	12	21	20	13	67
NW	SE	0	0	14	23	19	16	72
NNW	SSE	0	1	12	13	4	2	32
TOTAL		1	32	196	199	90	48	566

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: D

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	2	29	52	43	15	6	147
NNE	SSW	5	40	67	61	8	5	186
NE	SW	4	30	101	85	72	54	346
ENE	WSW	5	30	83	107	65	52	342
E	W	4	31	89	86	31	9	250
ESE	WNW	6	40	86	32	16	16	196
SE	NW	4	28	64	26	10	3	135
SSE	NNW	6	24	81	47	13	12	183
S	N	2	17	79	98	28	17	241
SSW	NNE	4	23	51	149	55	33	315
SW	NE	3	18	45	34	24	4	128
WSW	ENE	6	16	49	51	31	9	162
W	E	2	25	42	51	23	39	182
WNW	ESE	2	14	48	75	79	70	288
NW	SE	1	28	57	91	86	93	356
NNW	SSE	3	18	50	67	31	13	182
TOTAL		59	411	1044	1103	587	435	3639

OYSTER CREEK
380 FOOT ELEVATED RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: E

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	3	14	20	52	15	3	107
NNE	SSW	3	11	22	20	0	0	56
NE	SW	6	11	24	28	7	8	84
ENE	WSW	8	6	19	23	13	20	89
E	W	2	7	18	20	15	14	76
ESE	WNW	5	16	7	22	11	5	66
SE	NW	5	7	19	24	15	11	81
SSE	NNW	1	10	22	18	31	20	102
S	N	3	22	40	39	26	12	142
SSW	NNE	5	10	45	114	74	32	280
SW	NE	0	2	28	73	81	24	208
WSW	ENE	1	11	30	63	73	14	192
W	E	2	6	22	69	37	5	141
WNW	ESE	2	5	27	83	92	11	220
NW	SE	0	8	24	98	97	11	238
NNW	SSE	2	3	21	53	61	11	151
TOTAL		48	149	388	799	648	201	2233

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: F

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	1	9	11	38	30	1	90
NNE	SSW	0	5	5	16	5	0	31
NE	SW	0	11	8	13	0	0	32
ENE	WSW	2	1	2	9	1	0	15
E	W	3	1	1	4	1	0	10
ESE	WNW	1	6	5	2	0	0	14
SE	NW	3	2	6	3	0	0	14
SSE	NNW	1	5	9	7	1	0	23
S	N	2	11	14	20	2	0	49
SSW	NNE	0	8	15	21	6	1	51
SW	NE	3	8	30	31	48	22	142
WSW	ENE	2	7	14	39	53	21	136
W	E	0	15	14	45	32	8	114
WNW	ESE	0	7	22	41	43	14	127
NW	SE	2	5	18	39	52	13	129
NNW	SSE	1	11	11	32	19	4	78
TOTAL		21	112	185	360	293	84	1055

OYSTER CREEK
380 FOOT ELEVATED RELEASE DATA
JOINT FREQUENCY TABLES

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: G

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	3	4	15	16	8	0	46
NNE	SSW	1	12	20	17	3	0	53
NE	SW	1	11	21	20	1	0	54
ENE	WSW	0	5	9	3	0	0	17
E	W	0	6	6	1	0	0	13
ESE	WNW	1	5	9	2	0	0	17
SE	NW	0	3	11	3	0	0	17
SSE	NNW	2	7	3	2	1	0	15
S	N	3	4	16	11	2	0	36
SSW	NNE	2	15	11	18	2	1	49
SW	NE	10	14	14	20	9	5	72
WSW	ENE	3	5	28	26	14	5	81
W	E	6	8	19	18	9	6	66
WNW	ESE	3	8	33	25	9	2	80
NW	SE	3	13	17	39	8	1	81
NNW	SSE	6	7	15	20	6	2	56
TOTAL		44	127	247	241	72	22	753

Period of Record 01/01/92 @0000 TO 12/31/92 @2300

Stability Class: ALL

HOURS AT WIND SPEED AND DIRECTION

SECTOR TO	WINDS FROM	WIND SPEED						TOTAL
		1-3	4-7	8-12	13-18	19-24	>24	
N	S	9	58	104	158	70	10	409
NNE	SSW	9	70	117	116	18	5	335
NE	SW	11	67	171	172	91	67	579
ENE	WSW	15	43	152	185	93	76	564
E	W	9	58	157	131	48	23	426
ESE	WNW	13	72	145	59	27	21	337
SE	NW	12	40	132	65	25	14	288
SSE	NNW	10	48	130	104	48	32	372
S	N	10	55	162	218	90	34	569
SSW	NNE	11	59	130	319	144	71	734
SW	NE	16	44	125	170	168	57	580
WSW	ENE	12	46	138	204	189	60	649
W	E	11	56	116	202	126	67	578
WNW	ESE	7	35	148	258	266	126	840
NW	SE	6	54	133	310	295	157	955
NNW	SSE	12	40	112	196	131	34	525
TOTAL		173	845	2172	2867	1829	854	8740
HOURS OF MISSING/INVALID DATA :					44			

Oyster Creek Nuclear Station
1992-2 Semi Annual Effluent Report

Changes to the Offsite Dose Calculation Manual:

No changes were made to the ODCM during this time period.

Changes to the Process Control Plan:

The Process Control Plan procedure for Transfer, Solidification, and Dewatering of Solid Wet Waste was modified in October. Valving procedures already used per operator experience but not explicitly specified in the procedure are now identified and controlled by a valve check off.

Effluent Monitors Out of Service Greater than 30 Days:

During the second half of 1992 three instruments were out of service for longer than 30 days:

The Overboard Discharge Monitor was long out of service and was being refurbished during July and August. The instrument was placed into service in August. No overboard discharges occurred during the period from July through August when the instrument was out of service.

The Service Water Rad. Monitor was not declared operable as a result of repeated failures, air binding and biological fouling. The monitor is being evaluated for return to service. Daily discharge samples are collected as required while the monitor is out of service.

The AOG vent monitor was out of service from November until the end of the reporting period due to sample tubing leakage. Tubing repair is scheduled.